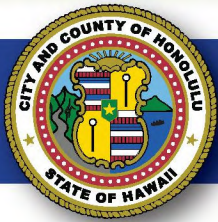


JULY 2010



# H O N O L U L U   R A I L   T R A N S I T   P R O J E C T



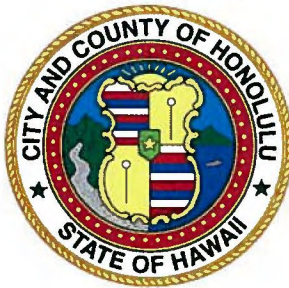
## QUARTERLY PROGRESS REPORT



# HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

## QUARTERLY PROGRESS REPORT

July 2010



**City and County of Honolulu**

Approved by:

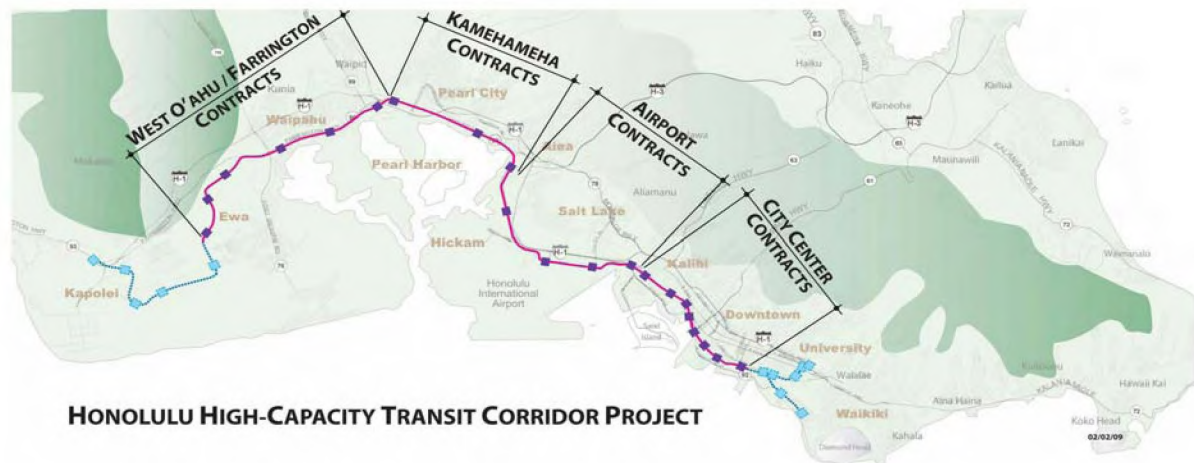
  
\_\_\_\_\_  
Simon Zweighaft  
Chief Project Officer

8/5/10  
Date

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## 1. Executive Summary



Project milestones achieved in July 2010 included:

- Design services agreement was reached with the top ranked firm Henningson, Durham & Richardson (HDR) for the Farrington Station Group on July 28.
- USDOL certification was received in response to RTD's request of \$34.99 million New Starts funds (FYs 2008 & 2009 Earmarks) for PE on July 7.
- Partnering meeting with Kiewit, GEC and RTD took place July 14 and 15.
- FTA sponsored Real Estate Workshop was held July 20 and 21.
- Section 106 Programmatic Agreement revision sent to signatories on July 26.
- List of major PE tasks requested by FTA was submitted via TEAM on July 7.

Major project issues:

- Project continues to be adversely affected by the completion of the ROD Milestone. The critical path to it's completion is the Governor's acceptance of Final EIS

Major project activities in July 2010 included:

- Project master schedule is in the process of a major re-planning effort due to ROD slip
- Value Engineering draft report review of the stations continues
- Fare Collection & Platform Screen Door studies are being conducted
- GEC continues to finalize the "bottoms-up" estimate of the project costs
- RTD is implementing our "CMS" web based contract management system.
- Multiple activities have been completed on the "Roadmap to Final Design"
- West Oahu Station Group – qualifications are being evaluated for design firms.



## 2. Current Contract Status

### Status

All cost and schedule data is as of June 25, 2010

### Project Management Consultant 2

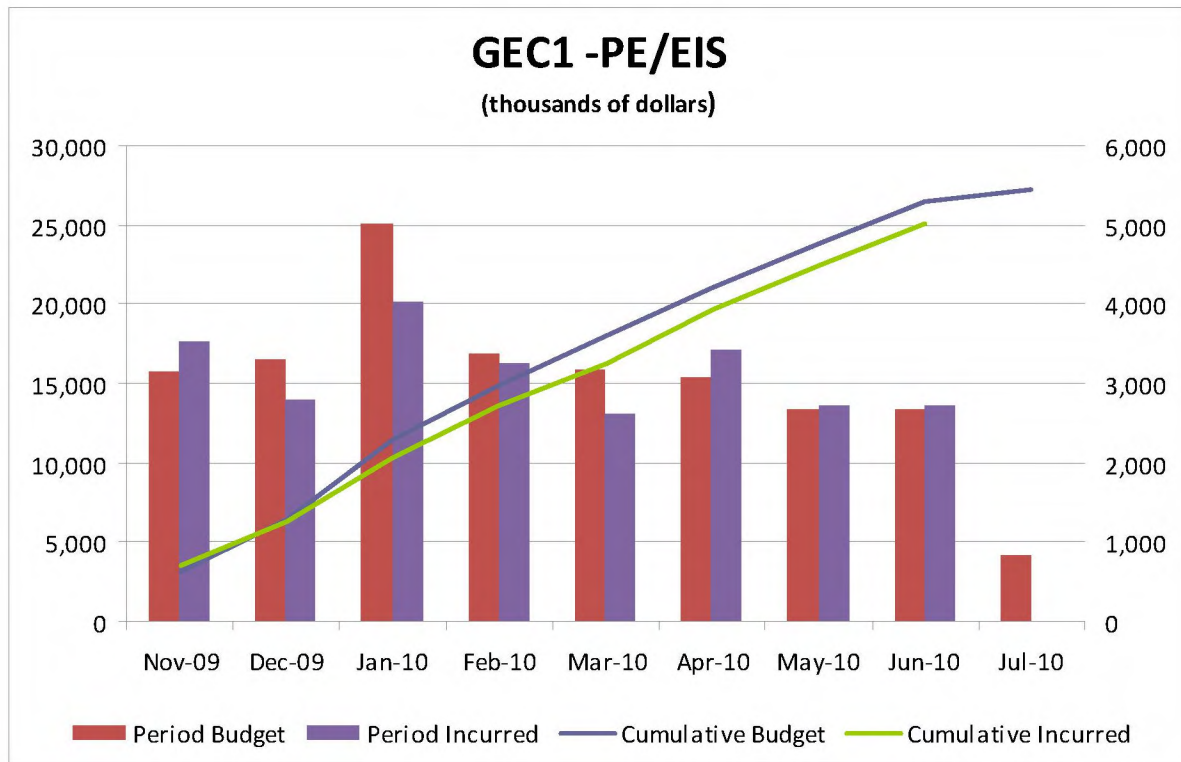
Contractor	Infraconsult LLC
Contract Number	SC-DTS-1000023
Award Date	11/19/2009
NTP Issued	11/19/2009
Contract Completion Date	11/19/2014
Anticipated Completion Date	11/19/2014
Independent Estimate	\$ 35,000,000
Contract Value	\$ 36,727,162
Change Orders to Date	0
Current Contract Value	\$ 36,727,162
Expended to Date	\$ 3,699,154
% Complete	10.0%

The PMC2 Contract with InfraConsult LLC (InfraConsult) was executed on November 19, 2009. InfraConsult staff's, currently numbering 22 people, are embedded within the City's Rapid Transit Division (RTD). There are no issues with the PMC Contract.

### General Engineering Consultant 1

Contractor	PB Americas
Contract Number	SC-DTS-0700001
Award Date	8/24/2007
NTP Issued	8/24/2007
Contract Completion Date	6/30/2010
Anticipated Completion Date	12/31/2010
Independent Estimate	\$ 70,500,000
Contract Value	\$ 85,000,000
Change Orders to Date	\$ 30,900,000
Current Contract Value	\$ 115,900,000
Expended to Date	\$ 113,710,468
% Complete	98%

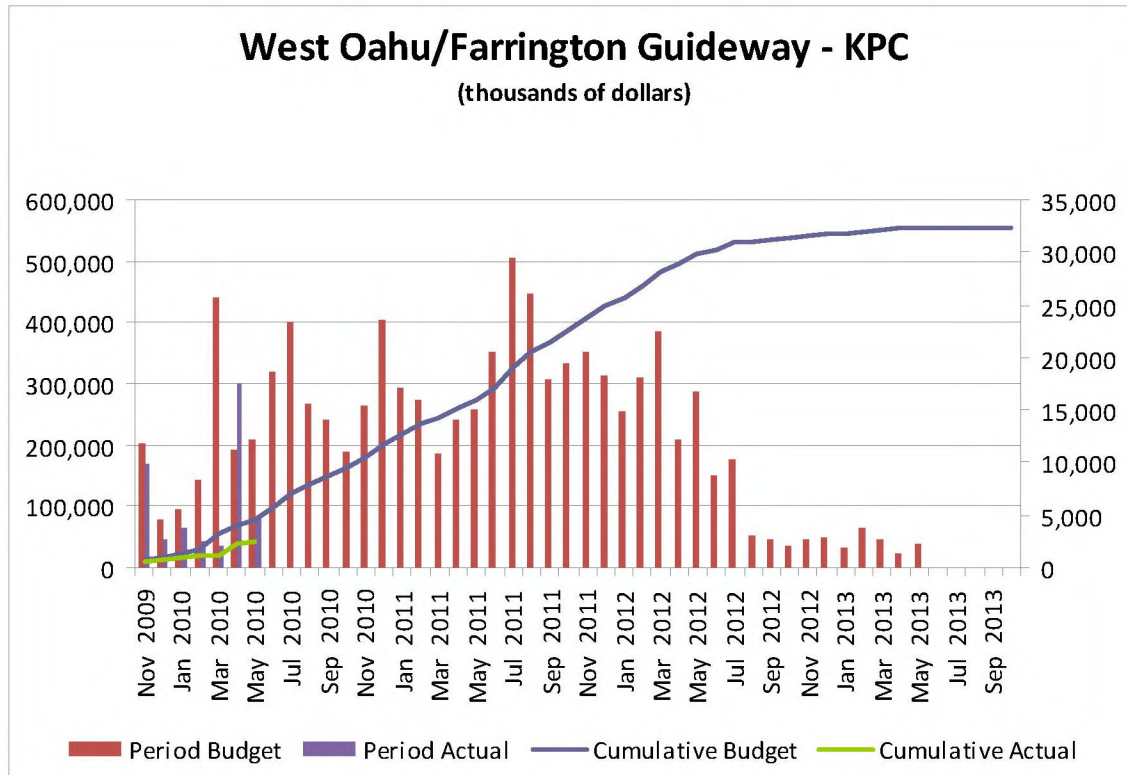
The GEC Contract with PB Americas, Inc. was executed in August 2007 and most recently was amended on April 7, 2010 (Amendment #4) for an additional \$12,900,000 for continued work on the EIS and PE. Included in the \$12,900,000 amount is \$4,000,000 in ARRA funds for PE work from FTA Grant HI-96-X001. RTD is working on GEC Contract Amendment #5 to cover estimated costs to October 31<sup>st</sup>. There are no issues with the GEC Contract.



#### West Oahu / Farrington Highway Guideway Design-Build (WOFH) Contract

Kiewit Pacific Company submitted a request to the City to change their name on the WOFH contract. The request is expected to be approved. The new name is Kiewit Infrastructure West Company.

Contractor	Kiewit Pacific
Contract Number	CT-DTS-1000137
Execute Contract	11/17/2009
NTP(s) Issued	
NTP 1	12/1/2009
NTP 1a	3/11/2010
NTP 1b	3/23/2010
NTP 1c	6/4/2010
Contract Completion Date	7/7/2013
Anticipated Completion Date	3/18/2014
Engineers Estimate	\$ 555,363,000
Contract Value	\$ 482,924,000
Change Orders to Date	\$0
Current Contract Value	\$ 482,924,000
Expended to Date	\$ 43,277,544
% Complete	9%



### Status

- Project continues with Kiewit Pacific Company (KPC) operating under the allowable tasks shown in Notice to Proceed #'s. 1, 1A, 1B and 1C. The City issued NTP 1C on June 4, 2010, which allows KPC to proceed with the method and test shafts work as part of the PE design for the pier foundations.
- KPC is proceeding with the exploratory soil boring program within Farrington Highway and East Kapolei areas.
- KPC has completed 64 exploratory soil borings to date and continues to perform utility potholing in advance of the boring activities.
- PE design work is progressing
- The WOFH field office staff continue to receive training in, and are implementing, Project Contract Management Software at the KPC Hub Office in Waipahu.

### Submittals and Request for Information (RFI) Status

- To date, a total of 42 contract submittals have been received: 20 have been accepted and closed, 6 are under review by RTD/GEC, 10 have been returned to KPC to revise and resubmit, and 6 were returned as incomplete.
- KPC has requested additional information from the RTD/GEC in 81 RFI's. At the end of the reporting period, there were 7 RFI's in the RTD/GEC review process.



Payment

- Payments to Contractor to date are less than anticipated in the proposal. This is mainly due to the revised NTP dates. KPC has submitted its Pay Request for Period 5, which has been accepted and recommended for payment.

Design Status

- KPC announced this month that they plan to utilize the delay period to advance their Interim Design submittals to a higher completion level than previously contemplated. In many cases, Interim Design submittals will be subdivided into Preliminary Interim and Advance Interim submittals. These will employ a combination of over-the-shoulder and formal reviews in an effort to flush out all review comments. KPC's goal is to get themselves into position to be able to later produce Final Design submittals relatively quickly and in a manner that will generate minimal comments once they receive approval to proceed with Final Design.
- Of the 13 Definitive Designs submitted to date, 6 have been returned to KPC to revise and resubmit as Preliminary Interim Design, 3 are in the RTD/GEC review process and 4 have been returned as incomplete.

Potential Change Log

- To date, the RTD/GEC has identified 35 potential change issues to the Contract. Of these, 11 issues have been closed.
- The GEC has provided its evaluation and recommendation to RTD for 12 potential changes and 3 more are currently in the GEC review and evaluation process.
- RTD has 7 RFCs in review that upon approval will be issued to KPC.
- No Change Orders have yet been executed with KPC.



Exploratory soil borings and potholing by KPC



# HHCTCP Quarterly Progress Report – July 2010

## Contracts for Legal Services & Utilities

Legal Services	Nossaman LLP
Contract Number	SC-COR-08A0186
Award Date	7/28/2008
NTP(s) Issued	6/1/2008
Contract Completion Date	5/31/2010
Anticipated Completion Date	6/1/2012
Independent Estimate	None
Contract Value	\$100,000
Change Orders to Date	\$700,000
Current Contract Value	\$800,000
Expended to Date	\$543,923
% Complete	68%

Legal Services	Kobayashi Sugita & Goda
Contract Number	SC-COR-1000075
Award Date	4/26/2010
NTP(s) Issued	12/15/2009
Contract Completion Date	12/14/2011
Anticipated Completion Date	12/14/2011
Independent Estimate	None
Contract Value	\$50,000
Change Orders to Date	\$0
Current Contract Value	\$50,000
Expended to Date	\$0
% Complete	0%

Legal Services	Yamamoto & Settle
Contract Number	SC-COR-0900171
Award Date	6/30/2009
NTP(s) Issued	6/1/2009
Contract Completion Date	5/31/2011
Anticipated Completion Date	5/31/2012
Independent Estimate	None
Contract Value	\$50,000
Change Orders to Date	\$35,000
Current Contract Value	\$85,000
Expended to Date	\$38,866
% Complete	78%

Legal Services	McCorriston Miller Mukai MacKinnon
Contract Number	SC-COR-1000024
Award Date	12/2/2009
NTP(s) Issued	9/23/2000
Contract Completion Date	9/22/2011
Anticipated Completion Date	9/22/2011
Independent Estimate	None
Contract Value	\$50,000
Change Orders to Date	\$20,000
Current Contract Value	\$70,000
Expended to Date	\$59,052
% Complete	84%

Legal Services	Ogletree Deakins Nash Smoak & Stewart, P.C.
Contract Number	PO-COR-1000400
Award Date	10/12/2009
NTP(s) Issued	10/16/2009
Contract Completion Date	2/19/2010
Anticipated Completion Date	2/19/2010
Independent Estimate	None
Contract Value	\$150,000
Change Orders to Date	\$0
Current Contract Value	\$150,000
Expended to Date	\$95,074
% Complete	100% (of performance)

Utility	Pacific LightNet
Contract Number	CT-DTS-0900502
Award Date	4/28/2010
NTP(s) Issued	4/29/2010
Contract Completion Date	OPEN
Anticipated Completion Date	OPEN
Engineers Estimate	N/A
Contract Value	\$40,000
Change Orders to Date	0
Current Contract Value	\$40,000
Expended to Date	0
% Complete	0%



# HHCTCP Quarterly Progress Report – July 2010

Utility	TW Telecom
Contract Number	CT-DTS-0900505
Award Date	12/2/2009
NTP(s) Issued	12/22/2009
Contract Completion Date	Open
Anticipated Completion Date	Open
Engineers Estimate	N/A
Contract Value	\$50,000
Change Orders to Date	0
Current Contract Value	\$50,000
Expended to Date	0
% Complete	0%

Utility	The Gas Company
Contract Number	CT-DTS-0900492
Award Date	12/13/2009
NTP(s) Issued	12/22/2009
Contract Completion Date	Open
Anticipated Completion Date	Open
Engineers Estimate	N/A
Contract Value	\$45,000
Change Orders to Date	0
Current Contract Value	\$45,000
Expended to Date	0
% Complete	0%

Utility	Oceanic Time Warner
Award Date	12/8/2009
NTP(s) Issued	12/22/2009
Contract Completion Date	Open
Anticipated Completion Date	Open
Engineers Estimate	N/A
Contract Value	\$40,000
Change Orders to Date	0
Current Contract Value	\$40,000
Expended to Date	0
% Complete	0%

Utility	Hawaiian Telcom
Contract Number	CT-DTS-0900504
Award Date	5/20/2010
NTP(s) Issued	
Contract Completion Date	Open
Anticipated Completion Date	Open
Engineers Estimate	N/A
Contract Value	\$50,000
Change Orders to Date	0
Current Contract Value	\$50,000
Expended to Date	0
% Complete	0%

Utility	Chevron Products
Contract Number	CT-DTS-0900500
Award Date	12/4/2009
NTP(s) Issued	12/22/2009
Contract Completion Date	Open
Anticipated Completion Date	Open
Engineers Estimate	N/A
Contract Value	\$45,000
Change Orders to Date	0
Current Contract Value	\$45,000
Expended to Date	0
% Complete	0%

Utility	Sandwich Isles Communication
Contract Number	CT-DTS-1000354
Award Date	5/20/2010
NTP(s) Issued	
Contract Completion Date	Open
Anticipated Completion Date	Open
Engineers Estimate	N/A
Contract Value	\$50,000
Change Orders to Date	0
Current Contract Value	\$50,000
Expended to Date	0
% Complete	0%

# HHCTCP Quarterly Progress Report – July 2010

## 3. Procurement

### Contract Packages

Contract #	Description	Advertise	Select	NTP
DB-120	W. Oahu/Farrington Guideway DB (Awarded)	4/3/2009	10/21/2009	12/1/2009
DB-200	Maintenance & Storage Facility DB	7/23/2009	7/23/2010	9/7/2010
DB-320	Kamehameha Guideway DB	3/19/2010	10/27/2010	12/6/2010
DBB-170	W. Oahu Station Construct (3)	3/1/2012	6/28/2012	3/27/2013
DBB-270	Farrington Station Construct (3)	11/22/2011	3/20/2012	9/16/2012
DBB-275	Pearl Highland Sta., Garage	3/18/2012	9/14/2012	9/15/2012
DBB-370	Kamehameha Stations (2) Contract	10/17/2012	2/13/2013	2/14/2013
DBB-450	Airport Utility Relocation	12/22/2011	4/19/2012	6/3/2012
DBB-460	Airport Guideway Construct	6/14/2012	10/11/2012	10/12/2012
DBB-470	Airport Stations (3) Construct	8/3/2014	11/30/2014	12/1/2014
DBB-550	City Center Utility Relocation	2/25/2012	1/23/2012	6/24/2012
DBB-560	City Center Guideway and Ala Moana Station Construct	5/20/2013	9/16/2013	10/19/2013
DBB-570	Dillingham Stations (3) Construct	7/9/2015	11/5/2015	11/6/2015
DBB-572	City Center Stations (3)	7/9/2015	11/5/2015	11/6/2015
DBB-575	Kaka'ako Stations (2) Construct	7/9/2015	11/5/2015	11/6/2015
DBOM-920	Core Systems DBOM	8/17/2009	7/2/2010	10/17/2010
FD-140	W. Oahu Stations (3) Design	1/14/2010	8/23/2010	9/8/2010
FD-240	Farrington Stations (3) Design	10/13/2009	7/20/2010	9/8/2010
FD-245	Pearl Highland Sta. Parking Structure & Ramps Design	7/28/2010	11/24/2010	11/25/2010
FD-340	Kamehameha Stations (2) Design	6/25/2010	10/22/2010	4/26/2011
FD-430	Airport Utility & Guideway Design	6/25/2010	10/22/2010	10/23/2010
FD-440	Airport Stations (3) Design	10/12/2012	2/8/2013	2/9/2013
FD-530	City Center Utility, Guideway & Ala Moana Station Design	1/31/2011	5/30/2011	5/31/2011
FD-540	Dillingham Stations (3) Design	9/17/2013	1/14/2014	1/15/2014
FD-542	City Center Stations (3) Designs	9/17/2013	1/14/2014	1/15/2014
FD-545	Kaka'ako Stations (2) Design	9/17/2013	1/14/2014	1/15/2014
MI-930	Project Wide Elevators & Escalators	1/31/2011	5/30/2011	6/3/2012
MM-180	West Oahu/Farrington Station CE&I	11/22/2011	3/20/2012	3/21/2012
MM-380	Pearl Highlands & Kam Stations CE&I	7/28/2010	11/24/2010	11/25/2010
MM-480	Airport Utility & Guideway CE&I	12/22/2011	4/19/2012	3/20/2012
MM-485	Airport & Dillingham Stations CE&I	8/3/2014	11/30/2014	12/1/2014
MM-580	City Center Utility & Guideway CE&I	2/25/2012	6/23/2012	6/24/2012
MM-585	City Center & Kaka'ako Stations CE&I	7/9/2015	11/5/2015	11/6/2015
MM-900	Program Management Support Consultant (Awarded)	8/12/2009	10/19/2009	10/20/2009
MM-905	General Engineering Consultant 1 (Awarded)		8/24/2007	8/24/2007
MM-910	General Engineering Consultant (2)	9/3/2009	12/31/2010	1/1/2011
MM-920	HDOT Coordination Consultant	6/25/2010	10/22/2010	10/23/2010
OF-950	Owner Furnished Plants & Shrubs	11/27/2013	3/27/2014	3/27/2014

 = Actual Date

Data Date: 6/25/2010

**CONFIDENTIAL**

Solicitations in Process

- Core Systems DBOM contract – clarification meetings scheduled for August 10 – 12, 2010.
- Maintenance and Storage Facility DB contract – selection of Kiewit/Kobayashi JV announced June 24, 2010
- Kamehameha Highway Guideway DB Contract – procurement schedule extended. Part 2 proposals due date September 9, 2010
- Farrington Station Group – agreement reached top ranked firm 7-28-10 (HDR).
- West Oahu Station Group – qualifications are being evaluated. Ranking should be approved and negotiations commencing in August
- General Engineering Consultant – in process

Look Ahead

- Meeting with CSC Priority Listed Offerors to discussion clarifications regarding proposals
- Prepare final addendum for KHG contract
- Finalize Maintenance and Storage Facility Contract
- Finalize Farrington Station Group Contract
- Process amendment 5 for GEC-1 contract
- Continue evaluations for new GEC-2 contract

**NOTE: The items discussed on this page are deemed CONFIDENTIAL and are not intended for public release.**



#### 4. Current Issues & Status

##### West Oahu / Farrington Highway (WOFH) Guideway DB Contract

- The contractor continues to proceed with preliminary engineering activities including definitive and interim designs, and geotechnical investigations.
- The contractor has ordered the equipment for the method and test shaft program. The first delivery is scheduled for August.
- RTD and GEC staffs continue attending the task force team meetings with the contractor and their design subconsultants. Coordination on the plinthless track design continues.
- Contractor submittals and RFIs are being reviewed and responded to.
- Contract Management System (CMS) continues to be further developed for use on all aspects as the contract communication tool.
- Partnering meeting was conducted resulting in a Partnering Charter which was signed by management staff from the contractor, RTD and GEC.

##### Maintenance and Storage Facility DB Contract

- Reviewing possible alternative configurations of the rail and buildings.

##### CORE Systems DBOM Contract

- Developed scope to have the GEC review present and future fare structure together with THEBUS present and future structure and provide the City with recommendations on cost and maintenance requirements if fare gates are installed. A similar recommendation from the GEC is required on employment Station Platform Doors. A guideline scope was provided to the GEC to research present worldwide installations, costs for installations and maintenance costs and possible issues.
- The emergency walkway draft design was received from the DB and it is expected that RTD will receive a report from the GEC on the design. Lighting associated with the emergency walkway is still unresolved until a final recommendation is received from the GEC on passenger evacuation from disabled trains stranded on the guideway. Several different MSF layouts have been developed and discussed internally and with the GEC. The next step is to meet with both the CSC and the MSF contractor to solicit their input so that a final plan can be developed soon.
- A specialist will study potential EMI issues from installing two HECO 138 KV cables on our guideway structure. We want to ensure that potential EMI generated by the HECO cables will not interfere with train control or any communication systems. The WOFH contractor provided definitive design drawings for review of the structure. We reviewed and commended on the stray current design drawings and design criteria.
- Finalized a discrepancy list for CSC proposals that do not meet RFP requirements.

##### Kamehameha Highway DB Documents

- Preparing technical updates for the addendum.

### Stations

- Farrington Station group – Finalizing the scope and cost with the selected team.
- Airport Guideway and Lagoon Drive Station Preliminary Engineering Drawings are being updated to reflect alignment change in the vicinity of the airport. Both design packages should be ready by late August.

### Value Engineering Study

- GEC / RTD continue to review the report to make recommendations on how to proceed. Several joint GEC / RTD meetings held to discuss findings.

### Agreements

- Continue to work on utility construction agreement language for the WOFH Section.
- Updated agreement language and comments received from HDOT. RTD reviewed the changes and provided another version of the agreement back to HDOT for their consideration.

### Roadmap to Final Design

- Continue to update deliverable dates onto the roadmap.
- Added fourteen new items onto the roadmap Project Solve site in June.
- Revised the Procedures section to be in line with RTD's Procedure matrix

### Design and Construction Coordination Meetings

- Meetings are held bi-weekly between the GEC and RTD staffs to discuss status and issues.
- Action item list which includes the action item, responsible person and due date is reviewed at the beginning of each meeting.

### Risk Management

- Four members of RTD staff will be attending a Risk Assessments for Transit Capital Projects course on August 17 & 18<sup>th</sup> hosted by the Transit Program Management & Compliance group of The National Transit Institute.

### Project Controls

- The Master Schedule is under major revision due in part to the late ROD.
- PE bottoms-up estimate is being finalized.
- Construction, engineering and project control procedures for all construction and engineering contracts are being finalized.
- RTD's Contract Management Software system (CMS) is in the implementation & training phase. RTD's CMS is a fully integrated, web based project controls and contract management system utilizing Oracle's P6, Contract Management, and Microsoft SharePoint.

### Configuration Management

- Configuration Management Plan: Out in draft form for RTD review. CFMP to be posted for PMOC review and comments in August
- RFC Procedure modified to include new tasks and clarify duties
- Contractor and RTD are both using CMS to process Requests for Change
- Finalizing documentation and process for CCB
- Interface Control Manual and Procedures in development



## 5. ROW

### Appraisals

- Appraisals for the Kamehameha Guideway were initiated.

### Agreements

- Department of Education Deputy Attorney General is completing its review of the draft agreement for Waipahu High School. FTA/PMOC review comments were received. FTA Regional comments are pending.

### Other Activities

- Continuing to secure Consent-to-Enter agreements in support of pre-design efforts for WOFH contract and the Kamehameha section.
- Continuing to meet with property owners impacted by the project.
- Held successful FTA/PMOC workshop. Based on the discussions, the HHCTCP RAMP and right-of-way budget are being revised.
- Drafting RFP for professional real estate services including acquisition, relocation and property management.

### Look Ahead

#### WOFH Section

- Make offers to WOFH private property owners
- Begin the relocation process for WOFH displaced owners and tenants
- Complete license agreement with DHHL for Drum Site
- Complete agreement with University of Hawaii for Leeward Community College and University of Hawaii West Oahu, and Department of Education for Waipahu High School
- Seek executive order for properties under DLNR control.
- Seek construction easement from DR Horton.

#### Kamehameha Section

- Complete the appraisal work associated with Kamehameha Guideway parcels.
- Begin developing the sub-agreement with the University of Hawaii School of Agriculture for the Urban Garden and the Aloha Stadium Authority.

TOTAL Parcel Impacts	TOTAL Parcels Needed	TOTAL Appraisals in Process	TOTAL Appraisals Complete	TOTAL Offers	TOTAL Accept- ance	TOTAL Relocations Complete	TOTAL Ready for Construction
213	196	0	17	1	1	0	0

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RELOCATION					
	All Sections	Section 1	Section 2	Section 3	Section 4
Residential	20	16	0	0	4
Business	67	5	9	8	45
Non-Profit	1	1	0	0	0
Assessments Complete	2	0	0	0	2
Lease Agreements	2	0	0	0	2
90-day Notice Sent	0	0	0	0	0
30-day Notice Sent	0	0	0	0	0
Relocation Complete	0	0	0	0	0

FULL ACQUISITION					
	All Sections	Section 1	Section 2	Section 3	Section 4
Impacts	40	14	5	6	15
Parcels Needed	40	14	5	6	15
Appraisals in Process	0	0	0	0	0
Appraisals Complete	15	14	0	0	1
Offers	1	0	0	0	1
Acceptance	1	0	0	0	1
Relocation Complete	0	0	0	0	0
Ready for Construction	0	0	0	0	0

PARTIAL ACQUISITION					
	All Sections	Section 1	Section 2	Section 3	Section 4
Impacts	161	17	21	35	88
Parcels Needed	144	16	7	33	88
Appraisals in Process	0	0	0	0	0
Appraisals Complete	2	2	0	0	0
Offers	0	0	0	0	0
Acceptance	0	0	0	0	0
Relocation Complete	0	0	0	0	0
Ready for Construction	0	0	0	0	0

# HHCTCP Quarterly Progress Report – July 2010

EASEMENTS					
	All Sections	Section 1	Section 2	Section 3	Section 4
Impacts	12	6	0	1	5
Parcels Needed	12	6	0	1	5
Appraisals in Process	0	0	0	0	0
Appraisals Complete	0	0	0	0	0
Offers	0	0	0	0	0
Acceptance	0	0	0	0	0
Relocation Complete	0	0	0	0	0
Ready for Construction	0	0	0	0	0

## 6. Quality

### Status

#### Quality Management Plan (QMP) & Quality Implementing Procedures (QIP)

- Received the PMOC comments on the Draft RTD Quality Management Program (QMP). RTD is currently incorporating comments into the Draft QMP. Quality related procedures will be added as an appendix to the QMP in lieu of a separate folder.
- The RTD QA Manager met with the PMOC to discuss the RTD responses to their comments, and the revised QMP. The final Draft QMP will be submitted to the PMOC on or before August 12, 2010.

#### WOHP Guideway

- Kiewit is currently completing preliminary design in accordance with the RTD- approved QMP and Design Quality Management Plan (DQMP).
- Bi-weekly QA workshop meetings were held with the Kiewit Project QA Manager, GEC QA Manager and HNTB Design QA Manager (QA Team) to discuss the status of design activities and other quality issues on the project.
- RTD & GEC are currently reviewing Kiewit Construction Quality Management Plan (CQMP) and Implementing Procedures, including the Inspection and Test Plans.

### MSF

- The Kiewit/Kobayashi JV was the selected contractor of the MSF. Kiewit, being the major partner of the JV, will be encouraged to adapt the RTD-approved QMP for the WOHP Guideway, with minor changes and adjustments.

#### Kamehameha Guideway

- QA review of the RFP was completed and issued to Design-Build (DB) Contractors.
- Special Provision 4.7 was revised to incorporate the FTA QA/QC Guidelines requirements on the Project.

### Core System

- The QA Manager participated in the review of the Core System DBOM Contract proposals.

Look Ahead

- Assist Procurement Officer on responding to any QA/QC questions on the proposals by the RTD Selection Committee.
- Finalize QMP and QIP(s) including Exhibits and Appendices in response to the comments of FTA/PMOC.
- Review and approved Kiewit CQMP/IP and continue RTD/GEC QA/QC oversight of the project.
- Finalize plan for the scheduled Joint QA Audit of Kiewit/HNTB guideway design activities in October 12-14, 2010. The design offices to be audited are in Orlando and Tallahassee, Florida.
- Anticipating a meeting with the Kiewit/Kobayashi JV QA team to discuss QA and contract requirements for the MSF.



## 7. Public Information

### Main Messages

- Release of the Final EIS and EIS Video Guide
- Announcement of the MSF contract with highlights on sustainable building features
- Geotechnical Community Awareness
- Mobility and Job Creation

### Outreach Tools

- Grass Root Outreach
- May/June Newsletter
- Retail & Youth Outreach: Kahala Mall
- Media: Morning Shows, Radio Shows, Press Releases

<b>Community Outreach</b>	<b>June</b>	<b>January - June</b>
Presentations & Events	8	96
Neighborhood Boards	13	65

### Look Ahead

- Continued Presentations & Events
- Method & Test Shafts Outreach



Kahala Mall Kids Day Interactive Display

## 8. Safety and Security

### Current Activities

- Attended APTA 2010 Rail Conference and Rail Safety Committee Meetings
- Mentoring and establishing work assignments for HPD Lieutenant.
- Performed Site Safety and Security walk through and observation of Kiewit HUB Office and Exploratory field work (07/06/10)
- Attended Kiewit Mass Safety Meeting and Training (07/06/10)
- Incorporating PMOC comments into Roadmap for Final Design Documents (PMP, SSMP, and SSCP)
- Working with GEC to evaluate hazards associated with the guideway emergency walkway
- Performed safety and security reviews of Core Systems Contract RFPs
- Supporting HDOT with development of 49 CFR 659 State Safety Oversight Designation Submission, Inter-governmental and Memorandum of Agreements
- Developed draft staffing plan matrix for Safety and Security Program positions through Construction Phase.
- Providing safety and security inputs to WOFH PE design related activities

### Look Ahead

- Safety and Security Oversight and Review Committee (SSORC) Meeting to be held July 29, 2010. Will discuss SSORC comments to Compendium of Design Criteria.
- TSI Rail System Safety Class schedule for November 15-19, 2010
- Establish Safety and Security Certification Working Group
- Complete review of Preliminary Hazard Analysis Rev. A
- PMOC to hold a Safety and Security Workshop

## 9. Environment & Historical

### Status

- On July 16, FTA extended the review period an additional 20 days to accommodate a request for an extension. The review period now ends August 16.
- As of July 21, 3 agencies and 4 public comments have been received during the review period.

### Programmatic Agreement (PA)

- Based on comments received from meetings held on June 23 and July 5 with FTA and PA signatories the PA has been revised. A revised PA was submitted to Liz Zelasco on July 19 for forwarding to DLNR (SHPO) for consideration.

### Other Items

- FTA and City staff met with USFWS on July 22 to relay project efforts underway concerning protection of endangered *Abutilon menziesii* and contingency reserve area, located near North/South Road. USFWS requested a letter from FTA summarizing commitments to mitigation discussed in this meeting. USFWS indicated that they will respond in writing that the project will not likely have an adverse effect to the abutilon. Receipt of USFWS' letter should conclude the Section 7 consultation
- Preparation of the draft Mitigation Monitoring Plan is underway..
- Continued participating in WOFH Permitting & Environmental Taskforce weekly meetings.
- Provided review comments to Environmental Compliance Management Plan Rev. D.

### Look Ahead

- Conclude Section 106 consultation and obtain signed Programmatic Agreement
- Receive Governor's acceptance of Final EIS
- Begin preparation of Record of Decision
- Submit draft Mitigation Monitoring Plan

# HHCTCP Quarterly Progress Report – July 2010

## Permit Activity

Noise Variance Permit	Complete	WOFH section only
CWA Section 404	Ongoing	In process; permit will be granted 3 – 6 months after ROD
CWA Section 401	Ongoing	In process; permit will be granted 3 – 6 months after ROD
Coastal Zone Management Cert for Section 404/10 DA	Ongoing	In process; permit will be granted 3 – 6 months after ROD
Special Management Area Permit	Ongoing	In process; permit will be granted 3 – 6 months after ROD
Stream Channel Alternation Permit	Ongoing	In process; permit will be granted 3 – 6 months after ROD
Storm Drain (MS4) Connection from DOT, Highways	Ongoing	Approved for pre-engineering testing
Storm Drain (MS4) Connection from UH	Ongoing	Approved for pre-engineering testing
Occupancy & Use Permit from DOT, Highways	Ongoing	Master Agreement pending
Flood Plain Variance from City/County	Ongoing	Pre-submittal review underway
Storm Drain (MS4) Connection from DOT, Airport	Pending	Required for Airport Segment 3
Coastal Zone Management Certification for FTA Funding	Pending	To be initiated in August 2011
Special District Permit Chinatown	Pending	To be initiated in August 2011
Project Eligibility and Development Permit (Kaka'ako)	Pending	To be initiated in August 2011



## 10. Staffing

### Status

The Honolulu City Council approved the FY 2011 Annual Operating Budget with a 9-0 vote which includes the Rapid Transit Division's request for funding for 31 additional positions. The Budget became law when Mayor Hannemann signed it on June 24, 2010.

As reported last month, City actions are in progress to fill the following positions:

- Right of Way Coordinator – Selected, targeting late August start date.
- Utilities Engineer – Targeting August/September start date.
- Secretary – Public Information Branch – Started on July 26, 2010.
- Planner VI – Financial and Grants Management. Targeting August/September start date.
- CAD Draftsman – Started on July 16, 2010.

InfraConsult Positions:

- Senior Cost Controls Analyst – Conducting new search for candidates.

Direct project support continues in the areas of centralized City functions from the following Departments:

- The Department of Information Technology
- Department of Budget & Fiscal Services
- Department of Design & Construction
- Corporation Counsel
- Department of Human Resources

Negotiations are ongoing for additional space within the building to accommodate RTD growth.

For greater detail please refer to Attachment "A" DTS-RTD Organizational Chart

## 11. Schedule Status

### Master Schedule

As of 6-25-10 (June 2010 data date) the Project continues to be adversely affected by the completion of the ROD Milestone. Its impact has caused all major milestones to slip.

<b>Major Project Milestones</b>	<b>Early Date</b>	<b>Total float</b>
Record Of Decision (ROD)	8/6/2010	-283
Entry into Final Design	3/29/2011	-227
FFGA	4/29/2012	-227
Open Waipahu to Leeward	8/25/2013	-365
MSF Complete	10/6/2014	-205
Open East Kapolei to Leeward	5/9/2015	-367
Open Leeward to Pearl Highlands	2/3/2016	-228
Open Kamehameha Section	11/30/2016	-59
Open Airport Section	6/19/2018	-249
Open to Ala Moana Center	10/10/2019	-258

- The delay in receiving environmental clearance also directly impacts our current WOFH Contract's NTP #2, #3, and #4, and those contracts currently in the procurement process. ROW acquisition is also adversely impacted.
- Resolving the FD Approval and LONP issue is also critical for the progress of the design/build contracts. Once ROD is resolved and removed from the critical path, FD Approval and LONP's will be driving the project.

RTD has started the planning effort to re-baseline the projects master schedule and expect completion in August 2010.

### Milestones Completed

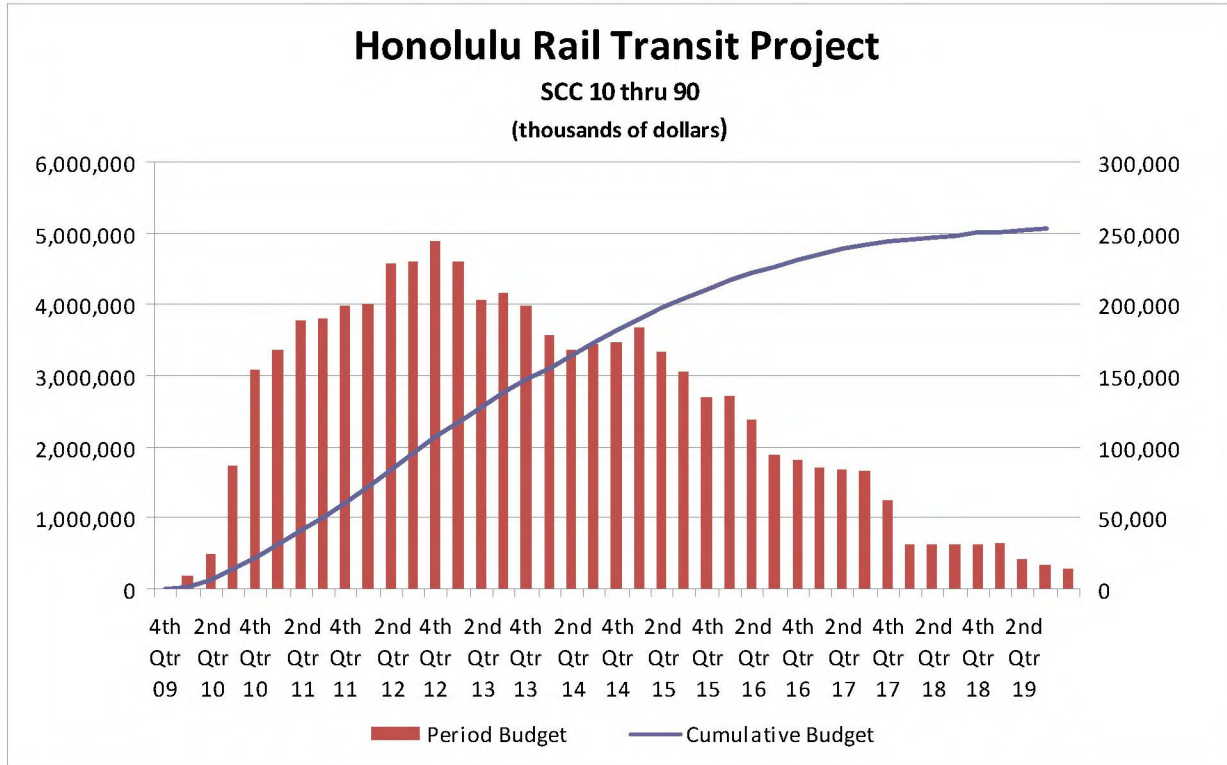
- Received approval by FTA to release Final EIS on June 14, 2010
- FTA filed Final EIS with EPA on June 18, 2010
- Notice of Availability published in Federal Register on June 25, 2010.

For greater detail please refer to Attachment "B" Master Project Schedule.

## 12. Cost/Budget Status

All cost and schedule data is as of June 25, 2010

### Budget



### Overall Project Budget by SCC

SCC	Description	Year of Expenditure				
		Baseline Budget	Allocated Contingency	Allocated Budget	Incurred to Date	Remaining Budget
<b>10</b>	<b>GUIDEWAY &amp; TRACK ELEMENTS</b>	<b>\$1,190,647</b>	<b>\$271,280</b>	<b>\$1,461,927</b>	<b>\$0</b>	<b>\$1,461,927</b>
10.01	Guideway: At-grade exclusive right-of-way	\$0	\$0	\$0	\$0	\$0
10.02	Guideway: At-grade semi-exclusive (allows cross-traffic)	\$0	\$0	\$0	\$0	\$0
10.03	Guideway: At-grade in mixed traffic	\$0	\$0	\$0	\$0	\$0
10.04	Guideway: Aerial structure	\$1,034,668	\$235,180	\$1,269,848	\$0	\$1,269,848
10.05	Guideway: Built-up fill	\$7,665	\$1,150	\$8,815	\$0	\$8,815
10.06	Guideway: Underground cut & cover	\$0	\$0	\$0	\$0	\$0
10.07	Guideway: Underground tunnel	\$0	\$0	\$0	\$0	\$0
10.08	Guideway: Retained cut or fill	\$0	\$0	\$0	\$0	\$0
10.09	Track: Direct fixation	\$135,803	\$32,133	\$167,936	\$0	\$167,936
10.1	Track: Embedded	\$0	\$0	\$0	\$0	\$0
10.11	Track: Ballasted	\$3,103	\$465	\$3,568	\$0	\$3,568
10.12	Track: Special (switches, turnouts)	\$9,408	\$2,352	\$11,759	\$0	\$11,759
10.13	Track: Vibration and noise dampening	\$0	\$0	\$0	\$0	\$0

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20	STATIONS, STOPS, TERMINALS, INTERMODAL	\$311,322	\$77,830	\$389,152	\$0	\$389,152
20.01	At-grade station, stop, shelter, mall, terminal, platform	\$0	\$0	\$0	\$0	\$0
20.02	Aerial station, stop, shelter, mall, terminal, platform	\$237,284	\$59,321	\$296,605	\$0	\$296,605
20.03	Underground station, stop, shelter, mall, terminal, platform	\$0	\$0	\$0	\$0	\$0
20.04	Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	\$0	\$0	\$0	\$0	\$0
20.05	Joint development	\$0	\$0	\$0	\$0	\$0
20.06	Automobile parking multi-story structure	\$0	\$0	\$0	\$0	\$0
20.07	Elevators, escalators	\$74,038	\$18,509	\$92,547	\$0	\$92,547
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	\$110,799	\$27,700	\$138,499	\$0	\$138,499
30.01	Administration Building: Office, sales, storage, revenue counting	\$18,981	\$4,745	\$23,726	\$0	\$23,726
30.02	Light Maintenance Facility	\$0	\$0	\$0	\$0	\$0
30.03	Heavy Maintenance Facility	\$91,818	\$22,955	\$114,773	\$0	\$114,773
30.04	Storage or Maintenance of Way Building	\$0	\$0	\$0	\$0	\$0
30.05	Yard and Yard Track	\$0	\$0	\$0	\$0	\$0
40	SITework & SPECIAL CONDITIONS	\$881,135	\$275,201	\$1,156,335	\$35,889	\$1,120,446
40.01	Demolition, Clearing, Earthwork	\$24,524	\$7,824	\$32,349	\$0	\$32,349
40.02	Site Utilities, Utility Relocation	\$405,234	\$134,972	\$540,206	\$0	\$540,206
40.03	Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	\$5,618	\$1,966	\$7,584	\$0	\$7,584
40.04	Environmental mitigation, e.g. wetlands, historic/archeologic, parks	\$7,681	\$2,688	\$10,370	\$0	\$10,370
40.05	Site structures including retaining walls, sound walls	\$6,271	\$941	\$7,211	\$0	\$7,211
40.06	Pedestrian / bike access and accommodation, landscaping	\$204,562	\$71,240	\$275,802	\$0	\$275,802
40.07	Automobile, bus, van accessways including roads, parking lots	\$14,427	\$2,164	\$16,591	\$0	\$16,591
40.08	Temporary Facilities and other indirect costs during construction	\$212,817	\$53,405	\$266,222	\$35,889	\$230,333
50	SYSTEMS	\$235,999	\$59,000	\$294,999	\$0	\$294,999
50.01	Train control and signals	\$42,594	\$10,649	\$53,243	\$0	\$53,243
50.02	Traffic signals and crossing protection	\$29,043	\$7,261	\$36,304	\$0	\$36,304
50.03	Traction power supply: substations	\$47,705	\$11,926	\$59,631	\$0	\$59,631
50.04	Traction power distribution: catenary and third rail	\$74,840	\$18,710	\$93,550	\$0	\$93,550
50.05	Communications	\$25,395	\$6,349	\$31,743	\$0	\$31,743
50.06	Fare collection system and equipment	\$5,419	\$1,355	\$6,774	\$0	\$6,774
50.07	Central Control	\$11,003	\$2,751	\$13,754	\$0	\$13,754
	Construction Subtotal (10 - 50)	\$2,729,901	\$711,011	\$3,440,912	\$35,889	\$3,405,023
60	ROW, LAND, EXISTING IMPROVEMENTS	\$89,652	\$44,826	\$134,478	\$2,902	\$131,576
60.01	Purchase or lease of real estate	\$87,268	\$43,634	\$130,902	\$2,902	\$128,000
60.02	Relocation of existing households and businesses	\$2,384	\$1,192	\$3,576	\$0	\$3,576
70	VEHICLES	\$321,633	\$77,192	\$398,825	\$0	\$398,825
70.01	Light Rail	\$287,086	\$68,901	\$355,987	\$0	\$355,987
70.02	Heavy Rail	\$0	\$0	\$0	\$0	\$0
70.03	Commuter Rail	\$0	\$0	\$0	\$0	\$0
70.04	Bus	\$0	\$0	\$0	\$0	\$0
70.05	Other	\$0	\$0	\$0	\$0	\$0
70.06	Non-revenue vehicles	\$5,838	\$1,401	\$7,239	\$0	\$7,239
70.07	Spare parts	\$28,709	\$6,890	\$35,599	\$0	\$35,599
80	PROFESSIONAL SERVICES	\$647,530	\$150,000	\$797,530	\$47,160	\$750,370
80.01	Preliminary Engineering	\$60,723	\$8,377	\$69,100	\$18,750	\$50,350
80.02	Final Design	\$111,639	\$28,230	\$139,869	\$0	\$139,869
80.03	Project Management for Design and Construction	\$138,399	\$22,464	\$160,864	\$28,140	\$132,724



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80.04	Construction Administration & Management	\$204,011	\$55,083	\$259,094	\$0	\$259,094
80.05	Professional Liability and other Non-Construction Insurance	\$33,983	\$9,176	\$43,159	\$0	\$43,159
80.06	Legal; Permits; Review Fees by other agencies, cities, etc.	\$38,553	\$10,409	\$48,962	\$270	\$48,692
80.07	Surveys, Testing, Investigation, Inspection	\$10,195	\$2,753	\$12,948	\$0	\$12,948
80.08	Start up	\$50,027	\$13,507	\$63,534	\$0	\$63,534
Subtotal (10 - 80)		\$3,788,716	\$983,028	\$4,771,744	\$85,951	\$4,685,794
90	90 UNALLOCATED CONTINGENCY			\$285,643		\$285,643
Subtotal (10 - 90)		\$3,788,716	\$983,028	\$5,057,387	\$85,951	\$4,971,437
100	Finance Charges	\$290,294		\$290,294		\$290,294
<b>Total Project Cost (10 - 100)</b>		<b>\$4,079,010</b>	<b>\$983,028</b>	<b>\$5,347,681</b>	<b>\$85,951</b>	<b>\$5,261,731</b>

### Expenditures this Period:

- Total Remaining Budget May 2010 = \$5,270,493,630
- Total Remaining Budget June 2010 = \$5,261,730,866
- Total Expenditures for June 2010 = \$8,762,764

Expenditures this Quarter (April-June 2010) = \$51,157,878

Note: This month includes a reduction of \$255,898 in SCC 80.06 "Incurred to Date". This is due to previously reported expenditures for portions of COR and benefits that were later determined to be ineligible.

### Funding Sources

#### **Distribution of Taxes - County Surcharge to State GET**

Effective January 1, 2007

Per HRS 248-2.6 and 238-2.6

**For the Quarter Ended:** **June 30, 2010**

County Surcharge Collected (per DoTax STO rpt):

Month 1	\$10,870,566.02
Month 2	\$9,187,358.16
Month 3	\$20,625,180.54
QE Total Collected	\$40,683,104.72 (a)

Less: 10% reimburse State (per DAGS JV):

(per HRS2: Month 1	\$1,087,056.60
Month 2	\$918,735.82
Month 3	\$2,062,518.05
QE Total to State	\$4,068,310.47 (b)

Net to County (a) - (b)

Month 1	\$9,783,509.42
Month 2	\$8,268,622.34
Month 3	\$18,562,662.49
Amount to C&C = (a) - (b)	\$36,614,794.25



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	FY 2007	FY 2008	FY 2009	FY 2010	Total
GET County					
Surcharge	\$ 48,424,383	\$ 169,113,552	\$ 160,855,727	\$ 150,003,647	\$ 528,397,309
Investment					
Revenue	\$ 18,098	\$ 3,724,229	\$ 3,595,915	\$ 182,535	\$ 7,520,777
Other	\$ -	\$ -	\$ 29,748	\$ 1,148	\$ 30,896
TOTAL	\$ 48,442,481	\$ 172,837,781	\$ 164,481,390	\$ 150,187,330	\$ 535,948,982

#### 14. Action items

Item No.	Item	Responsible Party	Date Identified	Date Due	Date Completed	Status
1	Schedule real estate workshop	PMOC	4-Nov-09	19-Jul-10	7/21/2010	Complete
2	Schedule Safety and Security Workshop	FTA/PMOC	4-Nov-09	10-Oct		Open
3	Schedule Roadmap meeting for Entry into FD	FTA/PMOC	16-Dec-09	10-Jan		PMOC coordinating with FTA and City for tentative dates in August.
4	Check on status of Real Estate appraisals provided to FTA	PMOC	10-Mar	10-Apr	6/10/2010	Complete
5	Schedule/Estimate workshop	PMOC	10-Jun			Open
6	Provide PE package for Airport	City	10-May	10-Jun		Open
7	Review Configuration Management Plan	PMOC	10-May	10-Jun		Open
8	Provide escalation methodology	City	10-May	10-Jun		Open
9	Mitigation Monitoring Plan	City	10-Jul	10-Aug		Draft MMP under development
10	State Oversight Agency	City	10-Jul	10-Aug		City to invite the SOA at the next PMOC meeting

**15. Acronyms used in this report**

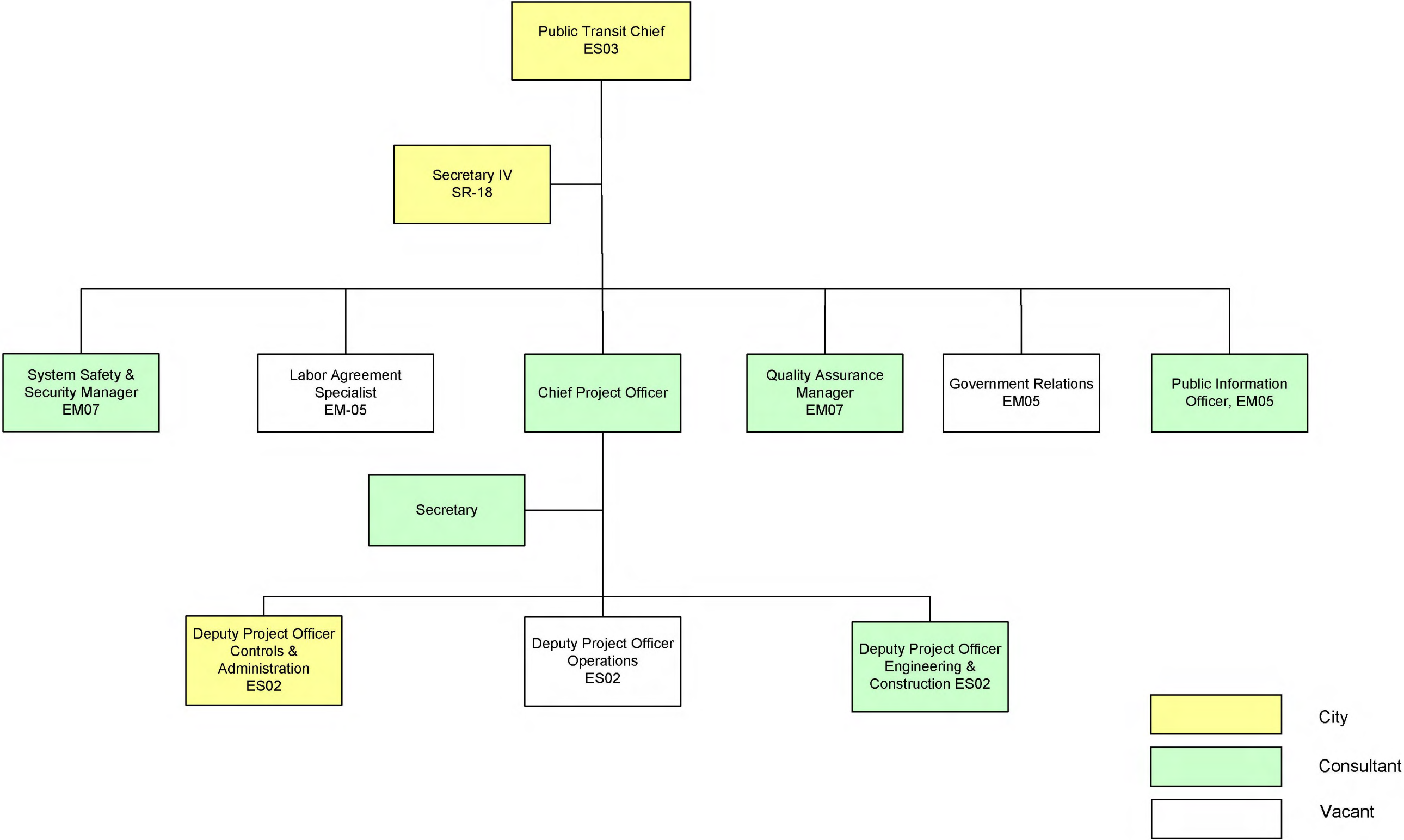
BFS	Department of Budget & Fiscal Services
CCB	Change Control Board
CFMP	Configuration Management Plan
CMS	Contract Management System
COR	Department of the Corporation Counsel
CQMP	Construction Quality Management Plan
CSC	Core Systems Contractor
DB	Design Build Contract
DBOM	Design Build Operate Maintain Contract
DHHL	Department of Hawaiian Homelands
DLNR	Department of Land and Natural Resources
DQMP	Design Quality Management Plan
DTS	Department of Transportation Services
EIS	Environmental Impact Statement
EPA	Environmental Protection Agency
FEIS	Final Environmental Impact Statement
FFGA	Full Funding Grant Agreement
FTA	Federal Transit Administration
GEC	General Engineering Consultant
GET	General Excise Tax
HAR	Hawaii Administrative Rules
HDOT	Hawaii Department of Transportation
HDR	Henningson, Durham & Richardson (contractor)
HECO	Hawaiian Electric Company
HFD	Honolulu Fire Department
HHCTCP	Honolulu High Capacity Transit Corridor Project
HNTB	Howard, Needles, Tamman & Bergendoff (contractor)
HPD	Honolulu Police Department
JV	Joint Venture
KPC	Kiewit Pacific Company (contractor)
LONP	Letter of No Prejudice
MSF	Maintenance and Storage Facility
NEPA	National Environmental Policy Act
NOA	Notification of Availability
NTP	Notice to Proceed
OCIP	Owner Controlled Insurance Programs
PE	Preliminary Engineering
PE/EIS	Preliminary Engineering/Environmental Impact Statement
PMC	Project Management Services Consultant
PMOC	Program Management Oversight Consultant
PMP	Project Management Plan

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QA	Quality Assurance
QA/QC	Quality Assurance and Quality Control
QMP	Quality Management Plan
RAMP	Real Estate Acquisition and Relocation Management Plan
RFC	Request for Change
RFI	Request for Information
RFP	Request for Proposal
ROD	Record of Decision
ROW	Right-of-Way
RTD	Rapid Transit Division
SSCP	Safety and Security Certification Plan
SSMP	Safety and Security Management Plan
SSOO	State Safety Oversight Office
SSORC	Safety and Security Oversight and Review Committee
VE	Value Engineering
WBS	Work Breakdown Structure
WOFH	West Oahu/Farrington Highway Segment

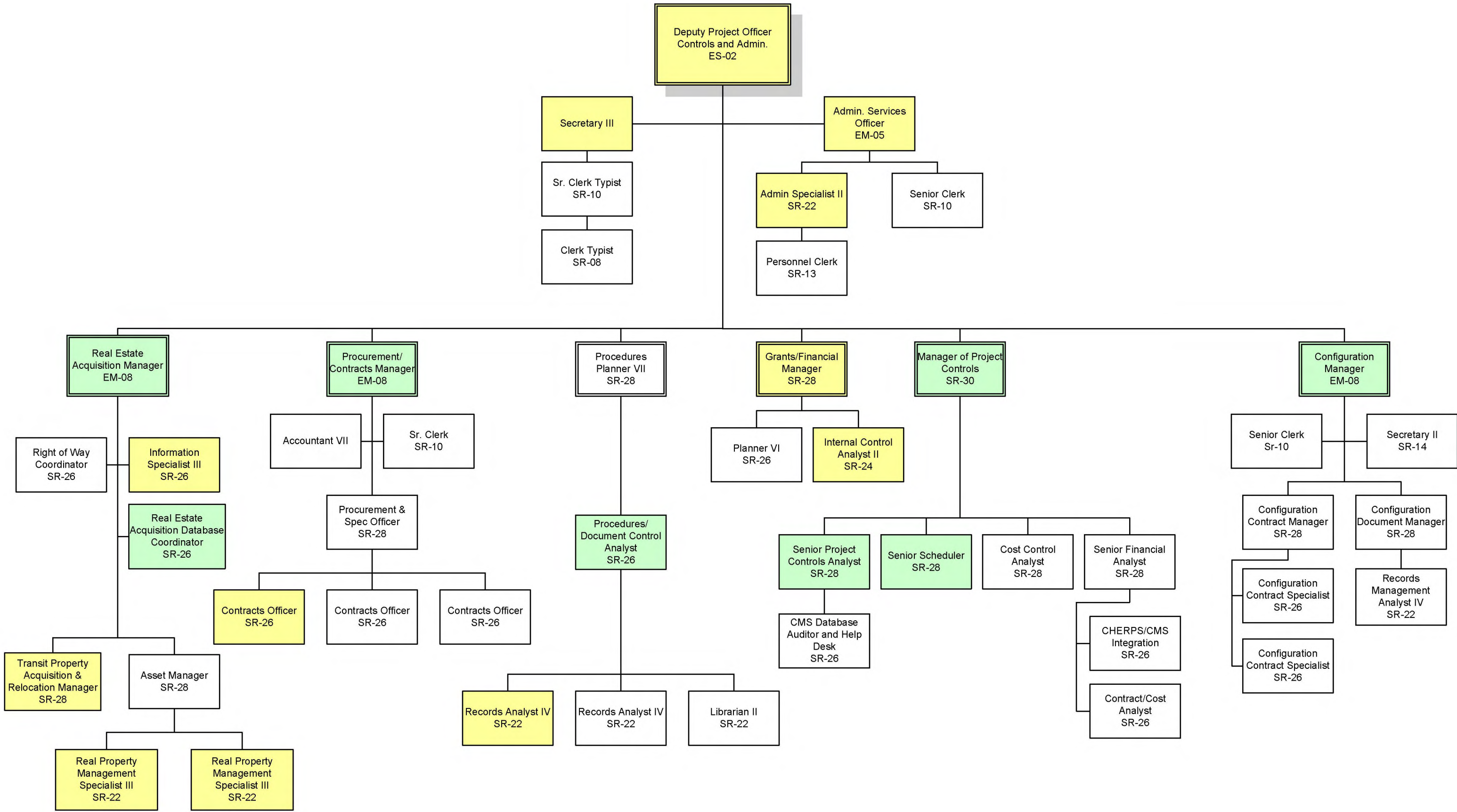
**Attachment “A”**  
**DTS-RTD Organizational Chart**

Department of Transportation Services  
Rapid Transit Division

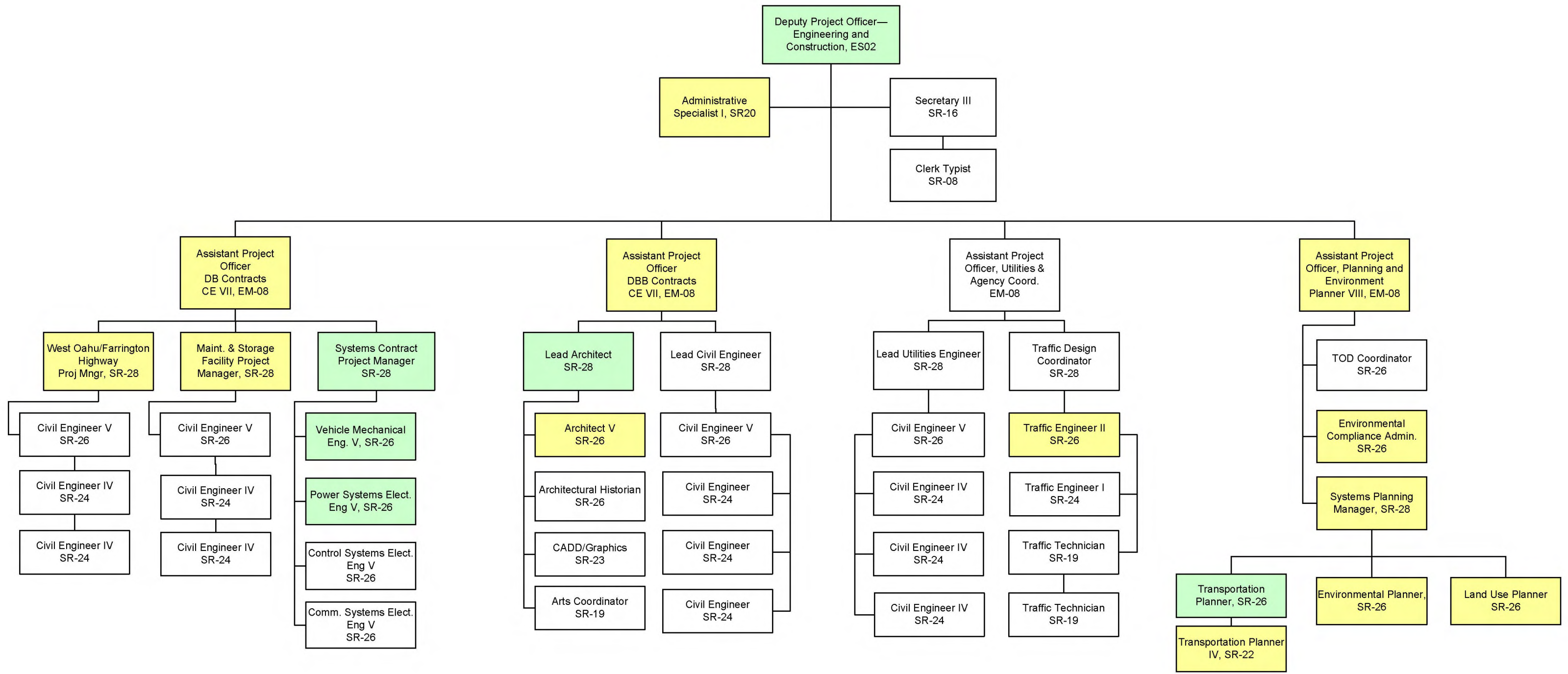




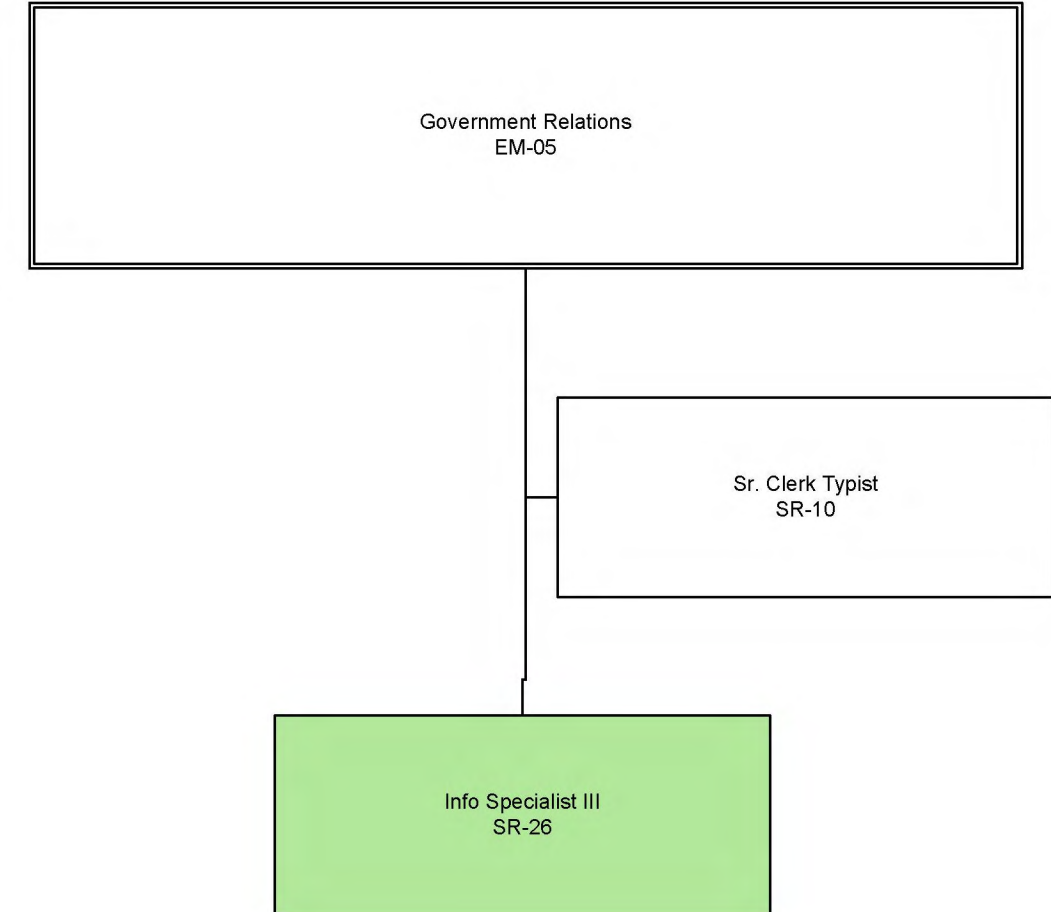
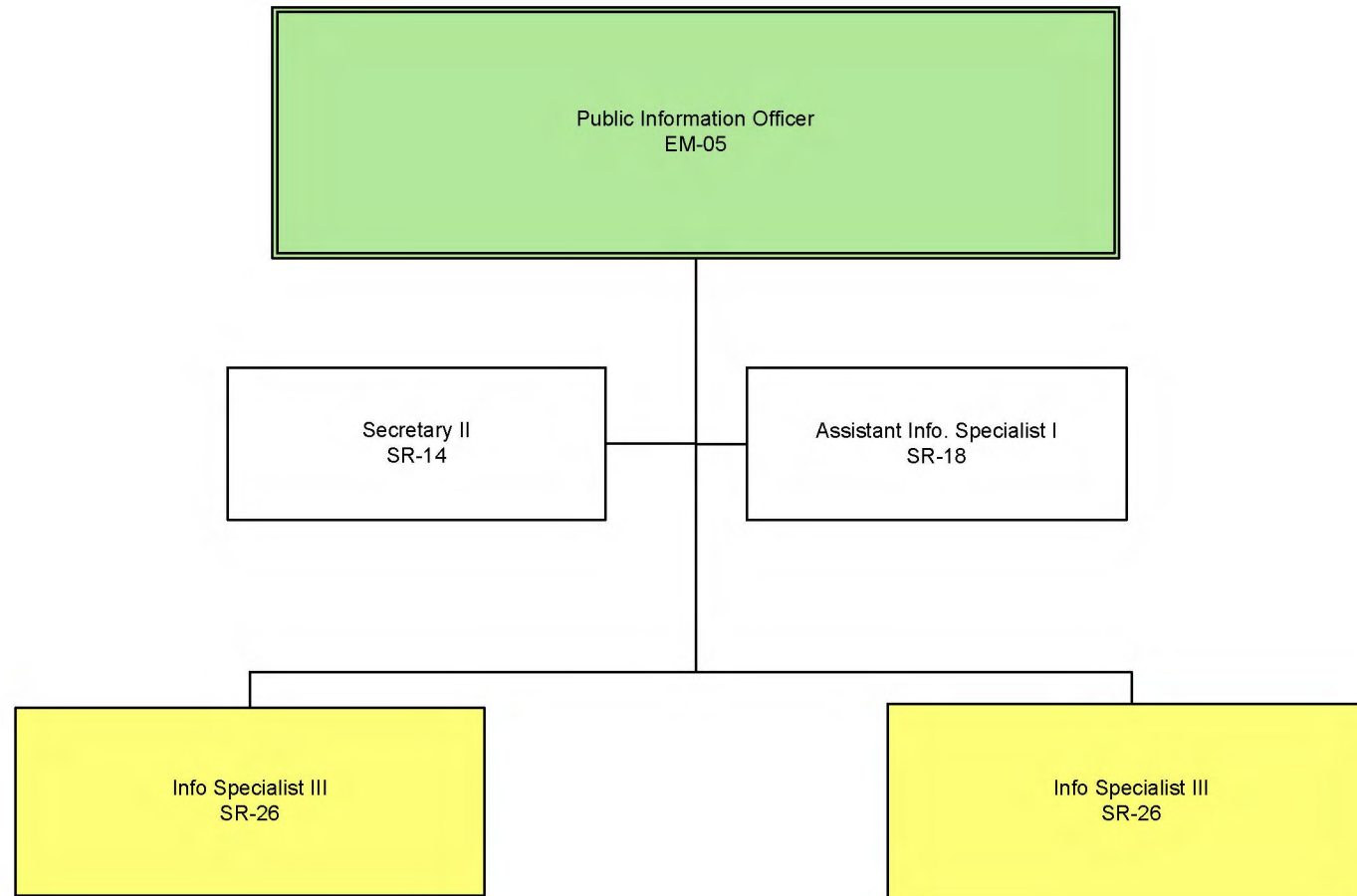
Department of Transportation Services  
Rapid Transit Division  
Controls & Administration



Department of Transportation Services  
Rapid Transit Division  
Engineering and Construction



Department of Transportation Services  
Rapid Transit Division  
Public Information & Government Relations



**Attachment “B”**  
**Master Project Schedule**







Activity ID	Activity Name	Orig Dur	Rem Dur	Start	Finish	Total Float	2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
							Q4	Q	Q	Q3	Q4	Q	Q2	Q	Q4	Q	Q2	Q	Q4	Q1	Q	Q3	Q	Q1	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q2	Q	Q1	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q	Q3	Q4	Q	Q

- Actual Level of Effort
- Remaining Level of Effort
- CEI Level of Effort
- Actual Work
- Remainin...
- Critical Re...

Honolulu High - Capacity Transit Corridor Project

Master Program Schedule























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